

**CRF Errors Edited by the STIC Systems  
Branch**

Serial Number: 10/501, 032

CRF Edit Date: 7/20/04  
Edited by: XO

\_\_\_ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

\_\_\_ Corrected the SEQ ID NO. Sequence numbers edited were:

\_\_\_\_\_

**ENTERED**

\_\_\_ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

\_\_\_\_\_

\_\_\_ Deleted: \_\_\_ invalid beginning/end-of-file text ; \_\_\_ page numbers

\_\_\_ Inserted mandatory headings/numeric identifiers, specifically:

\_\_\_\_\_

\_\_\_ Moved responses to same line as heading/numeric identifier, specifically:

\_\_\_\_\_

✓ Other:

A7 Seq ID #19, corrected  
Numeric Identifier <400>, a  
type error.



PCT

**RAW SEQUENCE LISTING**

PATENT APPLICATION: US/10/501,032

DATE: 07/20/2004

TIME: 16:12:13

Input Set : A:\pto.kd.txt

Output Set: N:\CRF4\07202004\J501032.raw

```

4 <110> APPLICANT: Lunden, Anne
5     Andersson, Leif
6     Marklund, Stefan
8 <120> TITLE OF INVENTION: Detection of Mutations
10 <130> FILE REFERENCE: 17917-002US1
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/501,032
C--> 12 <141> CURRENT FILING DATE: 2004-07-08
12 <150> PRIOR APPLICATION NUMBER: PCT/IB03/00028
13 <151> PRIOR FILING DATE: 2003-01-09
15 <150> PRIOR APPLICATION NUMBER: PA 2002 00031
16 <151> PRIOR FILING DATE: 2002-01-09
18 <160> NUMBER OF SEQ ID NOS: 20
20 <170> SOFTWARE: FastSeq for Windows Version 4.0
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 20
24 <212> TYPE: DNA
25 <213> ORGANISM: Artificial Sequence
W--> 26 <220> FEATURE:
27 <223> OTHER INFORMATION: Primer
W--> 28 <400> SEQUENCE: 1
29 gaccatgcag aagagggcag
32 <210> SEQ ID NO: 2
33 <211> LENGTH: 27
34 <212> TYPE: DNA
35 <213> ORGANISM: Artificial Sequence
W--> 36 <220> FEATURE:
37 <223> OTHER INFORMATION: Primer
W--> 38 <400> SEQUENCE: 2
39 cttaaactgt atgtatttca ggaggtt
42 <210> SEQ ID NO: 3
43 <211> LENGTH: 21
44 <212> TYPE: DNA
45 <213> ORGANISM: Artificial Sequence
W--> 46 <220> FEATURE:
47 <223> OTHER INFORMATION: Primer
W--> 48 <400> SEQUENCE: 3
49 catcatcagc tccagaagtg g
52 <210> SEQ ID NO: 4
53 <211> LENGTH: 21
54 <212> TYPE: DNA
55 <213> ORGANISM: Artificial Sequence
W--> 56 <220> FEATURE:
57 <223> OTHER INFORMATION: Primer

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## RAW SEQUENCE LISTING

DATE: 07/20/2004

PATENT APPLICATION: US/10/501,032

TIME: 16:12:13

Input Set : A:\pto.kd.txt

Output Set: N:\CRF4\07202004\J501032.raw

```

W--> 58 <400> SEQUENCE: 4
59 taaaggcatc aagccatagt t 21
62 <210> SEQ ID NO: 5
63 <211> LENGTH: 21
64 <212> TYPE: DNA
65 <213> ORGANISM: Artificial Sequence

W--> 66 <220> FEATURE:
67 <223> OTHER INFORMATION: Primer

W--> 68 <400> SEQUENCE: 5
69 cagaatcctg aggaaagagc c 21
72 <210> SEQ ID NO: 6
73 <211> LENGTH: 20
74 <212> TYPE: DNA
75 <213> ORGANISM: Artificial Sequence

W--> 76 <220> FEATURE:
77 <223> OTHER INFORMATION: Primer

W--> 78 <400> SEQUENCE: 6
79 attacttggtg ctgcccagcg 20
82 <210> SEQ ID NO: 7
83 <211> LENGTH: 26
84 <212> TYPE: DNA
85 <213> ORGANISM: Artificial Sequence

W--> 86 <220> FEATURE:
87 <223> OTHER INFORMATION: Primer

W--> 88 <400> SEQUENCE: 7
89 gatgaatgat attaattgaga aaatgg 26
92 <210> SEQ ID NO: 8
93 <211> LENGTH: 18
94 <212> TYPE: DNA
95 <213> ORGANISM: Artificial Sequence

W--> 96 <220> FEATURE:
97 <223> OTHER INFORMATION: Primer

W--> 98 <400> SEQUENCE: 8
99 ccggtccac tgggtcag 18
102 <210> SEQ ID NO: 9
103 <211> LENGTH: 142
104 <212> TYPE: DNA
105 <213> ORGANISM: Bos taurus

W--> 106 <220> FEATURE:
107 <221> NAME/KEY: exon
108 <222> LOCATION: (2)..(142)
109 <223> OTHER INFORMATION:

W--> 110 <400> SEQUENCE: 9
111 g gcc agc att tat cgg tca gtc ttt acc aac tct tcc aaa gag atg aca 49
112 Ala Ser Ile Tyr Arg Ser Val Phe Thr Asn Ser Ser Lys Glu Met Thr
113 1 5 10 15
115 tgt ttt cca gac ttt cca ttt cct gat gat ttt cct aac ttt atg cac 97
116 Cys Phe Pro Asp Phe Pro Phe Pro Asp Asp Phe Pro Asn Phe Met His
117 20 25 30

```

## RAW SEQUENCE LISTING

DATE: 07/20/2004

PATENT APPLICATION: US/10/501,032

TIME: 16:12:13

Input Set : A:\pto.kd.txt

Output Set: N:\CRF4\07202004\J501032.raw

```

119 aac agc aag ctc cag gaa tat att act atg ttt gcc aaa gaa aag      142
120 Asn Ser Lys Leu Gln Glu Tyr Ile Thr Met Phe Ala Lys Glu Lys
121      35      40      45
124 <210> SEQ ID NO: 10
125 <211> LENGTH: 151
126 <212> TYPE: DNA
127 <213> ORGANISM: Bos taurus
W--> 128 <220> FEATURE:
129 <221> NAME/KEY: exon
130 <222> LOCATION: (2)..(151)
131 <223> OTHER INFORMATION:
W--> 132 <400> SEQUENCE: 10
133 c tcc tgg gtg atg agc cgg gtc tgg gat gaa ggc tat cca tgg gac atg      49
134   Ser Trp Val Met Ser Arg Val Trp Asp Glu Gly Tyr Pro Trp Asp Met
135   1      5      10      15
137 ctg ttt atc act cga ttt gaa aca ttc ctc aag aac acc tta ccg aca      97
138 Leu Phe Ile Thr Arg Phe Glu Thr Phe Leu Lys Asn Thr Leu Pro Thr
139      20      25      30
141 gtc att tct aac tgg tgg tac atg aag caa atg aac gcc aga ttc aag      145
142 Val Ile Ser Asn Trp Trp Tyr Met Lys Gln Met Asn Ala Arg Phe Lys
143      35      40      45
145 cac gag      151
146 His Glu
147      50
150 <210> SEQ ID NO: 11
151 <211> LENGTH: 313
152 <212> TYPE: DNA
153 <213> ORGANISM: Bos taurus
W--> 154 <220> FEATURE:
155 <221> NAME/KEY: exon
156 <222> LOCATION: (2)..(313)
157 <223> OTHER INFORMATION:
W--> 158 <400> SEQUENCE: 11
159 t gtg ttc aat gac gaa ctc cca gct tgc att tta tgt ggc att gtg acc      49
160   Val Phe Asn Asp Glu Leu Pro Ala Cys Ile Leu Cys Gly Ile Val Thr
161   1      5      10      15
163 att aag cca aat gtg aag gag ttt aca gag gat tca gct att ttt gag      97
164 Ile Lys Pro Asn Val Lys Glu Phe Thr Glu Asp Ser Ala Ile Phe Glu
165      20      25      30
167 gat ggg acg gtg ttt aag gcc att gac tat gtc atc ttt gca aca ggc      145
168 Asp Gly Thr Val Phe Lys Ala Ile Asp Tyr Val Ile Phe Ala Thr Gly
169      35      40      45
171 tat agt tat gcc tac ccc ttc ctt gat gac tcc atc att aag agc aga      193
172 Tyr Ser Tyr Ala Tyr Pro Phe Leu Asp Asp Ser Ile Ile Lys Ser Arg
173      50      55      60
175 gac aat gag gtc acc tta ttt aaa ggc ata ttc cca cct cca ctg gaa      241
176 Asp Asn Glu Val Thr Leu Phe Lys Gly Ile Phe Pro Pro Pro Leu Glu
177 65      70      75      80
179 aag cca acc ttg gct gtg atc ggc ctt gtc cag tcc ctt gga gct gcc      289

```

## RAW SEQUENCE LISTING

DATE: 07/20/2004

PATENT APPLICATION: US/10/501,032

TIME: 16:12:13

Input Set : A:\pto.kd.txt

Output Set: N:\CRF4\07202004\J501032.raw

```

180 Lys Pro Thr Leu Ala Val Ile Gly Leu Val Gln Ser Leu Gly Ala Ala
181                               85                               90                               95
183 atc ccc act act gac ctg cag tct                                     313
184 Ile Pro Thr Thr Asp Leu Gln Ser
185                               100
188 <210> SEQ ID NO: 12
189 <211> LENGTH: 202
190 <212> TYPE: DNA
191 <213> ORGANISM: Bos taurus
W--> 192 <220> FEATURE:
193 <221> NAME/KEY: exon
194 <222> LOCATION: (2)..(202)
195 <223> OTHER INFORMATION:
W--> 196 <400> SEQUENCE: 12
197 g ttt ggc aaa agt gat acc ata cag acg gat tat gtt gtt tat atg gat      49
198   Phe Gly Lys Ser Asp Thr Ile Gln Thr Asp Tyr Val Val Tyr Met Asp
199   1                               5                               10                               15
201 gag ctt gcc tcc ttc att ggg gca aag ccc aac atc cca tgg ctg ttt      97
202 Glu Leu Ala Ser Phe Ile Gly Ala Lys Pro Asn Ile Pro Trp Leu Phe
203                               20                               25                               30
205 ctc aca gat cca aag ttg gca ttg gag gtc tac ttt ggc cct tgc acc      145
206 Leu Thr Asp Pro Lys Leu Ala Leu Glu Val Tyr Phe Gly Pro Cys Thr
207                               35                               40                               45
209 cca tac cag ttt agg ctg gtg ggc cca gga aag tgg cca gga gcc aga      193
210 Pro Tyr Gln Phe Arg Leu Val Gly Pro Gly Lys Trp Pro Gly Ala Arg
211   50                               55                               60
213 aac gcc atc                                                         202
214 Asn Ala Ile
215 65
218 <210> SEQ ID NO: 13
219 <211> LENGTH: 714
220 <212> TYPE: DNA
221 <213> ORGANISM: Bos taurus
W--> 222 <220> FEATURE:
223 <221> NAME/KEY: Intron
224 <222> LOCATION: (1)..(714)
225 <223> OTHER INFORMATION:
W--> 227 <220> FEATURE:
228 <221> NAME/KEY: Intron
229 <222> LOCATION: (1)..(714)
230 <223> OTHER INFORMATION:
W--> 231 <400> 13
232 ctccagattgt aagagcatct gtggttaaagg ggatccagaa ttttcatagc aaaatttgac      60
234 tttgtgaata cttaaactgt tttagtcttg aatactcctg agtgggacca ttaggggtgac      120
236 agctatgagc taaattcagc cattcaacaa atagttatca aggatatact tcgcacctga      180
238 tagaccacta aatcctgttt cagccctcca tatctcctgc aatatatcat aaaagagaga      240
240 cccagaaaga ttaaatttca gaggagcttg ggaacacacg gatgtggact tctatatttct      300
242 agctcataca tcctctaaaa tgtaaggatg ccttccaata ggtggctcta ataaatgact      360
244 cagccacaca acaactagtc agaagaacta ggctccagtc ctacctctgt cactaatcag      420

```

## RAW SEQUENCE LISTING

DATE: 07/20/2004

PATENT APPLICATION: US/10/501,032

TIME: 16:12:13

Input Set : A:\pto.kd.txt

Output Set: N:\CRF4\07202004\J501032.raw

```

246 ctacagtggcc atgaattaat aactacacgt gagcaagaga caattcctct acttgtaaatt 480
248 gtggataaaa atgcctttct cagcagcctt gttgtgttgt ggaatgtcca agtgagatca 540
250 gtatgaaagt ccttcagtaa aatctacaaa gtactggata atgagcaata atccccttac 600
252 caacaaaagg atcgatgttg atttgcgtgg ataaaaagggt gtgaggcatt ttccctgttc 660
254 ttgtttctaa aggaagctcg gatagccaca gtcttgtttc tctccctcct ctac 714
257 <210> SEQ ID NO: 14
258 <211> LENGTH: 1672
259 <212> TYPE: DNA
260 <213> ORGANISM: Bos taurus
W--> 261 <220> FEATURE:
262 <221> NAME/KEY: CDS
263 <222> LOCATION: (18)..(1616)
264 <223> OTHER INFORMATION:
W--> 266 <220> FEATURE:
267 <221> NAME/KEY: mRNA
268 <222> LOCATION: (1)..(1672)
269 <223> OTHER INFORMATION:
W--> 270 <400> 14
271 attacagaaa ggtaact atg gtg aag aaa gtg gcc atc att gga gca ggc 50
272 Met Val Lys Lys Val Ala Ile Ile Gly Ala Gly
273 1 5 10
275 atc agt ggc ctg gcc tcc atc aga aac tgc cta gaa gag gga ctg gaa 98
276 Ile Ser Gly Leu Ala Ser Ile Arg Asn Cys Leu Glu Glu Gly Leu Glu
277 15 20 25
279 ccc acc tgc ttt gag aag ggt gaa gac att ggg ggc ctg tgg aaa ttc 146
280 Pro Thr Cys Phe Glu Lys Gly Glu Asp Ile Gly Gly Leu Trp Lys Phe
281 30 35 40
283 tcg gac cat gta gag gaa ggc agg gcc agc att tat cgg tca gtc ttt 194
284 Ser Asp His Val Glu Glu Gly Arg Ala Ser Ile Tyr Arg Ser Val Phe
285 45 50 55
287 acc aac tct tcc aaa gag atg aca tgt ttt cca gac ttt cca ttt cct 242
288 Thr Asn Ser Ser Lys Glu Met Thr Cys Phe Pro Asp Phe Pro Phe Pro
289 60 65 70 75
291 gat gat ttt cct aac ttt atg cac aac agc aag ctc cag gaa tat att 290
292 Asp Asp Phe Pro Asn Phe Met His Asn Ser Lys Leu Gln Glu Tyr Ile
293 80 85 90
295 act atg ttt gcc aaa gaa aag aac ctc ctg aaa tac ata caa ttt aag 338
296 Thr Met Phe Ala Lys Glu Lys Asn Leu Lys Tyr Ile Gln Phe Lys
297 95 100 105
299 aca att gta tcc agt gta aat aag cgt ccc gat ttc caa acc act ggc 386
300 Thr Ile Val Ser Ser Val Asn Lys Arg Pro Asp Phe Gln Thr Thr Gly
301 110 115 120
303 caa tgg gat gtt atc act gaa aag gat ggt aaa aag gaa tca gct gtc 434
304 Gln Trp Asp Val Ile Thr Glu Lys Asp Gly Lys Lys Glu Ser Ala Val
305 125 130 135
307 ttt gat gcc gta atg att tgt tct gga cat cat gtg tac ccc aac ata 482
308 Phe Asp Ala Val Met Ile Cys Ser Gly His His Val Tyr Pro Asn Ile
309 140 145 150 155
311 cct aaa gag tcc ttt cca gga ata aaa ctt ttt aaa ggc aaa tgc ttc 530

```

## VERIFICATION SUMMARY

DATE: 07/20/2004

PATENT APPLICATION: US/10/501,032

TIME: 16:12:14

Input Set : A:\pto.kd.txt

Output Set: N:\CRF4\07202004\J501032.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No  
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:26 M:283 W: Missing Blank Line separator, <220> field identifier  
L:28 M:283 W: Missing Blank Line separator, <400> field identifier  
L:36 M:283 W: Missing Blank Line separator, <220> field identifier  
L:38 M:283 W: Missing Blank Line separator, <400> field identifier  
L:46 M:283 W: Missing Blank Line separator, <220> field identifier  
L:48 M:283 W: Missing Blank Line separator, <400> field identifier  
L:56 M:283 W: Missing Blank Line separator, <220> field identifier  
L:58 M:283 W: Missing Blank Line separator, <400> field identifier  
L:66 M:283 W: Missing Blank Line separator, <220> field identifier  
L:68 M:283 W: Missing Blank Line separator, <400> field identifier  
L:76 M:283 W: Missing Blank Line separator, <220> field identifier  
L:78 M:283 W: Missing Blank Line separator, <400> field identifier  
L:86 M:283 W: Missing Blank Line separator, <220> field identifier  
L:88 M:283 W: Missing Blank Line separator, <400> field identifier  
L:96 M:283 W: Missing Blank Line separator, <220> field identifier  
L:98 M:283 W: Missing Blank Line separator, <400> field identifier  
L:106 M:283 W: Missing Blank Line separator, <220> field identifier  
L:110 M:283 W: Missing Blank Line separator, <400> field identifier  
L:110 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:9,Line#:109  
L:128 M:283 W: Missing Blank Line separator, <220> field identifier  
L:132 M:283 W: Missing Blank Line separator, <400> field identifier  
L:132 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:10,Line#:131  
L:154 M:283 W: Missing Blank Line separator, <220> field identifier  
L:158 M:283 W: Missing Blank Line separator, <400> field identifier  
L:158 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:11,Line#:157  
L:192 M:283 W: Missing Blank Line separator, <220> field identifier  
L:196 M:283 W: Missing Blank Line separator, <400> field identifier  
L:196 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:12,Line#:195  
L:222 M:283 W: Missing Blank Line separator, <220> field identifier  
L:231 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:13,Line#:225  
L:231 M:283 W: Missing Blank Line separator, <400> field identifier  
L:231 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:13,Line#:230  
L:261 M:283 W: Missing Blank Line separator, <220> field identifier  
L:270 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:14,Line#:264  
L:270 M:283 W: Missing Blank Line separator, <400> field identifier  
L:270 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:14,Line#:269  
L:416 M:283 W: Missing Blank Line separator, <400> field identifier  
L:527 M:283 W: Missing Blank Line separator, <220> field identifier  
L:529 M:283 W: Missing Blank Line separator, <400> field identifier  
L:537 M:283 W: Missing Blank Line separator, <220> field identifier  
L:539 M:283 W: Missing Blank Line separator, <400> field identifier  
L:547 M:283 W: Missing Blank Line separator, <220> field identifier  
L:549 M:283 W: Missing Blank Line separator, <400> field identifier  
L:557 M:283 W: Missing Blank Line separator, <220> field identifier  
L:559 M:283 W: Missing Blank Line separator, <400> field identifier  
L:567 M:283 W: Missing Blank Line separator, <220> field identifier

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/501,032

DATE: 07/20/2004

TIME: 16:12:14

Input Set : A:\pto.kd.txt

Output Set: N:\CRF4\07202004\J501032.raw

L:569 M:283 W: Missing Blank Line separator, <400> field identifier





PCT

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/501,032

DATE: 07/16/2004

TIME: 16:46:55

Input Set : A:\17917-002US1.txt

Output Set: N:\CRF4\07162004\J501032.raw

4 <110> APPLICANT: Lunden, Anne  
 5       Andersson, Leif  
 6       Marklund, Stefan  
 8 <120> TITLE OF INVENTION: Detection of Mutations  
 10 <130> FILE REFERENCE: 17917-002US1  
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/501,032  
 C--> 12 <141> CURRENT FILING DATE: 2004-07-08  
 12 <150> PRIOR APPLICATION NUMBER: PCT/IB03/00028  
 13 <151> PRIOR FILING DATE: 2003-01-09  
 15 <150> PRIOR APPLICATION NUMBER: PA 2002 00031  
 16 <151> PRIOR FILING DATE: 2002-01-09  
 18 <160> NUMBER OF SEQ ID NOS: 20  
 20 <170> SOFTWARE: FastSeq for Windows Version 4.0

Does Not Comply  
 Corrected Diskette Needed  
 (pg. 1)

## ERRORED SEQUENCES

553 <210> SEQ ID NO: 19  
 554 <211> LENGTH: 27  
 555 <212> TYPE: DNA  
 556 <213> ORGANISM: Artificial Sequence  
 W--> 557 <220> FEATURE:  
 E--> 558 <223> OTHER INFORMATION: Primer  
 E--> 559 <400> SEQUENCE: 19  
 560 ggacttagac acacagaaga aaagaag

27

## VERIFICATION SUMMARY

DATE: 07/16/2004

PATENT APPLICATION: US/10/501,032

TIME: 16:46:56

Input Set : A:\17917-002US1.txt

Output Set: N:\CRF4\07162004\J501032.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No  
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:26 M:283 W: Missing Blank Line separator, <220> field identifier  
L:28 M:283 W: Missing Blank Line separator, <400> field identifier  
L:36 M:283 W: Missing Blank Line separator, <220> field identifier  
L:38 M:283 W: Missing Blank Line separator, <400> field identifier  
L:46 M:283 W: Missing Blank Line separator, <220> field identifier  
L:48 M:283 W: Missing Blank Line separator, <400> field identifier  
L:56 M:283 W: Missing Blank Line separator, <220> field identifier  
L:58 M:283 W: Missing Blank Line separator, <400> field identifier  
L:66 M:283 W: Missing Blank Line separator, <220> field identifier  
L:68 M:283 W: Missing Blank Line separator, <400> field identifier  
L:76 M:283 W: Missing Blank Line separator, <220> field identifier  
L:78 M:283 W: Missing Blank Line separator, <400> field identifier  
L:86 M:283 W: Missing Blank Line separator, <220> field identifier  
L:88 M:283 W: Missing Blank Line separator, <400> field identifier  
L:96 M:283 W: Missing Blank Line separator, <220> field identifier  
L:98 M:283 W: Missing Blank Line separator, <400> field identifier  
L:106 M:283 W: Missing Blank Line separator, <220> field identifier  
L:110 M:283 W: Missing Blank Line separator, <400> field identifier  
L:110 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:9,Line#:109  
L:128 M:283 W: Missing Blank Line separator, <220> field identifier  
L:132 M:283 W: Missing Blank Line separator, <400> field identifier  
L:132 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:10,Line#:131  
L:154 M:283 W: Missing Blank Line separator, <220> field identifier  
L:158 M:283 W: Missing Blank Line separator, <400> field identifier  
L:158 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:11,Line#:157  
L:192 M:283 W: Missing Blank Line separator, <220> field identifier  
L:196 M:283 W: Missing Blank Line separator, <400> field identifier  
L:196 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:12,Line#:195  
L:222 M:283 W: Missing Blank Line separator, <220> field identifier  
L:231 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:13,Line#:225  
L:231 M:283 W: Missing Blank Line separator, <400> field identifier  
L:231 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:13,Line#:230  
L:261 M:283 W: Missing Blank Line separator, <220> field identifier  
L:270 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:14,Line#:264  
L:270 M:283 W: Missing Blank Line separator, <400> field identifier  
L:270 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:14,Line#:269  
L:416 M:283 W: Missing Blank Line separator, <400> field identifier  
L:527 M:283 W: Missing Blank Line separator, <220> field identifier  
L:529 M:283 W: Missing Blank Line separator, <400> field identifier  
L:537 M:283 W: Missing Blank Line separator, <220> field identifier  
L:539 M:283 W: Missing Blank Line separator, <400> field identifier  
L:547 M:283 W: Missing Blank Line separator, <220> field identifier  
L:549 M:283 W: Missing Blank Line separator, <400> field identifier  
L:557 M:283 W: Missing Blank Line separator, <220> field identifier  
L:559 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:19 differs:18 ✓  
L:559 M:283 W: Missing Blank Line separator, <400> field identifier

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/501,032

DATE: 07/16/2004

TIME: 16:46:56

Input Set : A:\17917-002US1.txt

Output Set: N:\CRF4\07162004\J501032.raw

L:567 M:283 W: Missing Blank Line separator, <220> field identifier

L:569 M:283 W: Missing Blank Line separator, <400> field identifier